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 IBM Technical Disclosure Bulletins

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DATE: Sunday, July 22, 2007

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<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
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☐ 1. Document ID: US 20060199975 A1

L4: Entry 1 of 50

File: PGPB

Sep 7, 2006

PGPUB-DOCUMENT-NUMBER: 20060199975

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060199975 A1

TITLE: Process for preparing at least one organic target compound by heterogeneously catalyzed gas phase partial oxidation

PUBLICATION-DATE: September 7, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dieterle; Martin	Mannheim		DE
Muller-Engel; Klaus Joachim	Stutensee		DE
Petzoldt; Jochen	Weisenheim am Berg		DE
Hammon; Ulrich	Mannheim		DE

US-CL-CURRENT: 562/546; 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 20060167308 A1

L4: Entry 2 of 50

File: PGPB

Jul 27, 2006

PGPUB-DOCUMENT-NUMBER: 20060167308

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060167308 A1

TITLE: Process for the preparation of alkylarylsulfonates

PUBLICATION-DATE: July 27, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Maas; Heiko	Mannheim		DE
Narbeshuber; Thomas	Ibbenbueren		DE
Roper; Michael	Wachenheim		DE

US-CL-CURRENT: 562/122

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 3. Document ID: US 20050107630 A1

L4: Entry 3 of 50

File: PGPB

May 19, 2005

PGPUB-DOCUMENT-NUMBER: 20050107630

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050107630 A1

TITLE: Staged countercurrent oxidation

PUBLICATION-DATE: May 19, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Belmonte, Frank G.	Hawthorn Woods	IL	US
Sikkenga, David L.	Wheaton	IL	US
Ogundiran, Olusola Sunday	League City	TX	US
Abrams, Kenneth J.	Naperville	IL	US
Leung, Linus Kai-Wah	Naperville	IL	US
Meller, Christopher G.	Carol Stream	IL	US
Figgins, Dale A.	Houston	TX	US
Mossman, Allen B.	Wheaton	IL	US

US-CL-CURRENT: 562/421

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 4. Document ID: US 20040199006 A1

L4: Entry 4 of 50

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040199006

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040199006 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: October 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Graham, Derek Alexander	Cleveland		GB
Hamley, Paul Anthony	Nottingham		GB
Oliver, Raymond	Stockton On Tees		GB
Poliakoff, Martyn	Nottingham		GB

Woodcock, Duncan C.	Cheshire	GB
Ilkenhans, Thomas	Cambridge	GB

US-CL-CURRENT: 562/412

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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☐ 5. Document ID: US 20040010161 A1

L4: Entry 5 of 50

File: PGPB

Jan 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040010161
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040010161 A1

TITLE: Method for producing alkyl aryl sulphonates

PUBLICATION-DATE: January 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Maas, Heiko	Mannheim		DE
Narbeshuber, Thomas	Ibbenburen		DE
Roper, Michael	Wachenheim		DE

US-CL-CURRENT: 562/94

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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☐ 6. Document ID: US 20020028968 A1

L4: Entry 6 of 50

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020028968
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020028968 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Graham, Derek Alexander	Cleveland		GB
Hamley, Paul Anthony	Nottingham		GB
Ilkenhans, Thomas	Cambridge		GB
Oliver, Raymond	Stockton on Tees		GB
Poliakoff, Martyn	Nottingham		GB
Woodcock, Duncan C.	Cheshire		GB

US-CL-CURRENT: 562/415

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. De
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☐ 7. Document ID: US 20010023285 A1

L4: Entry 7 of 50

File: PGPB

Sep 20, 2001

PGPUB-DOCUMENT-NUMBER: 20010023285

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010023285 A1

TITLE: Methods for treating cobalt catalyst in oxidation mixtures resulting from oxidation of hydrocarbons to dibasic acids

PUBLICATION-DATE: September 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Vassiliou, Eustathios	Newark	DE	US
Dassel, Mark W.	Indianola	WA	US
Rostami, Ader M.	Bainbridge Island	WA	US
Dudgeon, Douglas J.	Bainbridge Island	WA	US
DeCoster, David C.	Buckley	WA	US

US-CL-CURRENT: 528/272; 526/68, 526/69, 528/332, 528/335, 562/512.2, 562/518, 562/519, 562/521, 562/522, 562/523

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. De
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☐ 8. Document ID: US 7238833 B2

L4: Entry 8 of 50

File: USPT

Jul 3, 2007

US-PAT-NO: 7238833

DOCUMENT-IDENTIFIER: US 7238833 B2

TITLE: Production of aromatic carboxylic acids

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040199006 A1	October 7, 2004

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. De
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☐ 9. Document ID: US 7060852 B2

L4: Entry 9 of 50

File: USPT

Jun 13, 2006

US-PAT-NO: 7060852

DOCUMENT-IDENTIFIER: US 7060852 B2

TITLE: Method for producing alkyl aryl sulphonates

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20040010161 A1

January 15, 2004

Full	Title	Citation	Front	Review	Classification	Date	Reference	US 7060852 B2	US 20040010161 A1	Claims	KMIC	Draw De
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☐ 10. Document ID: US 6765113 B2

L4: Entry 10 of 50

File: USPT

Jul 20, 2004

US-PAT-NO: 6765113

DOCUMENT-IDENTIFIER: US 6765113 B2

TITLE: Production of aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	US 6765113 B2	US 20040010161 A1	Claims	KMIC	Draw De
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☐ 11. Document ID: US 6448436 B1

L4: Entry 11 of 50

File: USPT

Sep 10, 2002

US-PAT-NO: 6448436

DOCUMENT-IDENTIFIER: US 6448436 B1

TITLE: Integrated process for the production of 2, 6-naphthalene dicarboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 12. Document ID: US 6340420 B1

L4: Entry 12 of 50

File: USPT

Jan 22, 2002

US-PAT-NO: 6340420

DOCUMENT-IDENTIFIER: US 6340420 B1

**** See image for Certificate of Correction ****

TITLE: Methods of treating the oxidation mixture of hydrocarbons to respective dibasic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 13. Document ID: US 6337051 B1

L4: Entry 13 of 50

File: USPT

Jan 8, 2002

US-PAT-NO: 6337051

DOCUMENT-IDENTIFIER: US 6337051 B1

TITLE: Device for detecting formation of a second liquid phase

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 14. Document ID: US 6326455 B1

L4: Entry 14 of 50

File: USPT

Dec 4, 2001

US-PAT-NO: 6326455

DOCUMENT-IDENTIFIER: US 6326455 B1

**** See image for Certificate of Correction ****

TITLE: Methods for treating cobalt catalyst in oxidation mixtures resulting from oxidation of hydrocarbons to dibasic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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☐ 15. Document ID: US 6307099 B1

L4: Entry 15 of 50

File: USPT

Oct 23, 2001

US-PAT-NO: 6307099

DOCUMENT-IDENTIFIER: US 6307099 B1

TITLE: Production of terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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☐ 16. Document ID: US 6288273 B1

L4: Entry 16 of 50

File: USPT

Sep 11, 2001

US-PAT-NO: 6288273

DOCUMENT-IDENTIFIER: US 6288273 B1

TITLE: Method for producing shell catalysts for catalytic gas-phase oxidation of aromatic hydrocarbons

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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☐ 17. Document ID: US 6288270 B1

L4: Entry 17 of 50

File: USPT

Sep 11, 2001

US-PAT-NO: 6288270

DOCUMENT-IDENTIFIER: US 6288270 B1

TITLE: Methods for controlling the reaction rate of a hydrocarbon to an acid by making phase-related adjustments

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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☐ 18. Document ID: US 6232495 B1

L4: Entry 18 of 50

File: USPT

May 15, 2001

US-PAT-NO: 6232495

DOCUMENT-IDENTIFIER: US 6232495 B1

TITLE: Methods for treating cobalt catalyst in oxidation mixtures resulting from oxidation of hydrocarbons to dibasic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 19. Document ID: US 6183698 B1

L4: Entry 19 of 50

File: USPT

Feb 6, 2001

US-PAT-NO: 6183698

DOCUMENT-IDENTIFIER: US 6183698 B1

**** See image for Certificate of Correction ****

TITLE: Devices for controlling the reaction rate of a hydrocarbon to an intermediate oxidation product by pressure drop adjustments

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 20. Document ID: US 6143927 A

L4: Entry 20 of 50

File: USPT

Nov 7, 2000

US-PAT-NO: 6143927

DOCUMENT-IDENTIFIER: US 6143927 A

TITLE: Methods for removing catalyst after oxidation of hydrocarbons

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 21. Document ID: US 6137001 A

L4: Entry 21 of 50

File: USPT

Oct 24, 2000

US-PAT-NO: 6137001

DOCUMENT-IDENTIFIER: US 6137001 A

TITLE: Process for preparing aromatic carboxylic acids with efficient treatments of gaseous effluent

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMIC	Draw D
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☐ 22. Document ID: US 6129875 A

L4: Entry 22 of 50

File: USPT

Oct 10, 2000

US-PAT-NO: 6129875

DOCUMENT-IDENTIFIER: US 6129875 A

TITLE: Process of separating catalyst from oxidation mixtures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMIC	Draw D
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☐ 23. Document ID: US 6103933 A

L4: Entry 23 of 50

File: USPT

Aug 15, 2000

US-PAT-NO: 6103933

DOCUMENT-IDENTIFIER: US 6103933 A

**** See image for Certificate of Correction ****

TITLE: Methods for controlling the oxidation rate of a hydrocarbon by adjusting the ratio of the hydrocarbon to a rate-modulator

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMIC	Draw D
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☐ 24. Document ID: US 6039902 A

L4: Entry 24 of 50

File: USPT

Mar 21, 2000

US-PAT-NO: 6039902

DOCUMENT-IDENTIFIER: US 6039902 A

TITLE: Methods of recycling catalyst in oxidations of hydrocarbons

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMOC	Drawings
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☐ 25. Document ID: US 6037491 A

L4: Entry 25 of 50

File: USPT

Mar 14, 2000

US-PAT-NO: 6037491

DOCUMENT-IDENTIFIER: US 6037491 A

TITLE: Methods and devices for controlling hydrocarbon oxidations to respective acids by adjusting the solvent to hydrocarbon ratio

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMOC	Drawings
------	-------	----------	-------	--------	----------------	------	-----------	----------	--------	------	----------

☐ 26. Document ID: US 5998572 A

L4: Entry 26 of 50

File: USPT

Dec 7, 1999

US-PAT-NO: 5998572

DOCUMENT-IDENTIFIER: US 5998572 A

TITLE: Methods and devices for controlling the oxidation of a hydrocarbon to an acid by regulating temperature/conversion relationship in multi-stage arrangements

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMOC	Drawings
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☐ 27. Document ID: US 5980801 A

L4: Entry 27 of 50

File: USPT

Nov 9, 1999

US-PAT-NO: 5980801

DOCUMENT-IDENTIFIER: US 5980801 A

TITLE: Methods of preparing an intermediate oxidation product from a hydrocarbon by utilizing an activated initiator

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMOC	Drawings
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☐ 28. Document ID: US 5961942 A

L4: Entry 28 of 50

File: USPT

Oct 5, 1999

US-PAT-NO: 5961942

DOCUMENT-IDENTIFIER: US 5961942 A

TITLE: Effluent gas treatment

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw. De
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☐ 29. Document ID: US 5955394 A

L4: Entry 29 of 50

File: USPT

Sep 21, 1999

US-PAT-NO: 5955394

DOCUMENT-IDENTIFIER: US 5955394 A

TITLE: Recovery process for oxidation catalyst in the manufacture of aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw. De
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☐ 30. Document ID: US 5939582 A

L4: Entry 30 of 50

File: USPT

Aug 17, 1999

US-PAT-NO: 5939582

DOCUMENT-IDENTIFIER: US 5939582 A

TITLE: Reaction control by regulating internal condensation inside a reactor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw. De
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☐ 31. Document ID: US 5908589 A

L4: Entry 31 of 50

File: USPT

Jun 1, 1999

US-PAT-NO: 5908589

DOCUMENT-IDENTIFIER: US 5908589 A

TITLE: Methods for separating catalyst from oxidation mixtures containing dibasic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
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☐ 32. Document ID: US 5883292 A

L4: Entry 32 of 50

File: USPT

Mar 16, 1999

US-PAT-NO: 5883292

DOCUMENT-IDENTIFIER: US 5883292 A

TITLE: Reaction control by regulating internal condensation inside a reactor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
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☐ 33. Document ID: US 5877341 A

L4: Entry 33 of 50

File: USPT

Mar 2, 1999

US-PAT-NO: 5877341

DOCUMENT-IDENTIFIER: US 5877341 A

TITLE: Methods and devices for controlling the reaction rate of a hydrocarbon to an intermediate oxidation product by pressure drop adjustments

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
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☐ 34. Document ID: US 5824819 A

L4: Entry 34 of 50

File: USPT

Oct 20, 1998

US-PAT-NO: 5824819

DOCUMENT-IDENTIFIER: US 5824819 A

TITLE: Methods of preparing an intermediate oxidation product from a hydrocarbon by utilizing an activated initiator

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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☐ 35. Document ID: US 5817868 A

L4: Entry 35 of 50

File: USPT

Oct 6, 1998

US-PAT-NO: 5817868

DOCUMENT-IDENTIFIER: US 5817868 A

**** See image for Certificate of Correction ****

TITLE: Method and devices for controlling the oxidation of a hydrocarbon to an acid by regulating temperature/conversion relationship in multi-stage arrangements

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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☐ 36. Document ID: US 5801282 A

L4: Entry 36 of 50

File: USPT

Sep 1, 1998

US-PAT-NO: 5801282

DOCUMENT-IDENTIFIER: US 5801282 A

TITLE: Methods of making intermediate oxidation products by controlling pre-coalescing temperature and transient temperature difference in an atomized liquid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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☐ 37. Document ID: US 5801273 A

L4: Entry 37 of 50

File: USPT

Sep 1, 1998

US-PAT-NO: 5801273

DOCUMENT-IDENTIFIER: US 5801273 A

TITLE: Methods and devices for controlling the reaction rate of a hydrocarbon to an intermediate oxidation product by pressure drop adjustments

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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☐ 38. Document ID: US 5705682 A

L4: Entry 38 of 50

File: USPT

Jan 6, 1998

US-PAT-NO: 5705682

DOCUMENT-IDENTIFIER: US 5705682 A

TITLE: Process for producing highly pure terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 39. Document ID: US 5654475 A

L4: Entry 39 of 50

File: USPT

Aug 5, 1997

US-PAT-NO: 5654475

DOCUMENT-IDENTIFIER: US 5654475 A

TITLE: Methods of making intermediate oxidation products by controlling oxidation rates in an atomized liquid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 40. Document ID: US 5614159 A

L4: Entry 40 of 50

File: USPT

Mar 25, 1997

US-PAT-NO: 5614159

DOCUMENT-IDENTIFIER: US 5614159 A

TITLE: Process for the purification of an oxidation off gas with energy recovery

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 41. Document ID: US 5583254 A

L4: Entry 41 of 50

File: USPT

Dec 10, 1996

US-PAT-NO: 5583254

DOCUMENT-IDENTIFIER: US 5583254 A

**** See image for Certificate of Correction ****

TITLE: Process for the production of purified terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 42. Document ID: US 5580905 A

L4: Entry 42 of 50

File: USPT

Dec 3, 1996

US-PAT-NO: 5580905

DOCUMENT-IDENTIFIER: US 5580905 A

TITLE: Process for recycling polyesters

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 43. Document ID: US 5580531 A

L4: Entry 43 of 50

File: USPT

Dec 3, 1996

US-PAT-NO: 5580531

DOCUMENT-IDENTIFIER: US 5580531 A

TITLE: Devices for making reaction products by controlling transient conversion in an atomized liquid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 44. Document ID: US 5558842 A

L4: Entry 44 of 50

File: USPT

Sep 24, 1996

US-PAT-NO: 5558842

DOCUMENT-IDENTIFIER: US 5558842 A

TITLE: Devices for making reaction products by controlling pre-coalescing temperature and transient temperature difference in an atomized liquid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMNC	Draw. De
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☐ 45. Document ID: US 5502245 A

L4: Entry 45 of 50

File: USPT

Mar 26, 1996

US-PAT-NO: 5502245

DOCUMENT-IDENTIFIER: US 5502245 A

TITLE: Methods of making intermediate oxidation products by controlling transient conversion in an atomized liquid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMNC	Draw. De
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☐ 46. Document ID: US 4956493 A

L4: Entry 46 of 50

File: USPT

Sep 11, 1990

US-PAT-NO: 4956493

DOCUMENT-IDENTIFIER: US 4956493 A

TITLE: Process for producing methacrylic ester

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMNC	Draw. De
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☐ 47. Document ID: US 4564702 A

L4: Entry 47 of 50

File: USPT

Jan 14, 1986

US-PAT-NO: 4564702

DOCUMENT-IDENTIFIER: US 4564702 A

**** See image for Certificate of Correction ****

TITLE: Hydrogenation reactions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMNC	Draw. De
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☐ 48. Document ID: US 4302595 A

L4: Entry 48 of 50

File: USPT

Nov 24, 1981

US-PAT-NO: 4302595

DOCUMENT-IDENTIFIER: US 4302595 A

TITLE: Process for the preparation of terephthalic acid by the hydrolysis of intermediate stage crude dimethyl terephthalate

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. De
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☐ 49. Document ID: US 4259522 A

L4: Entry 49 of 50

File: USPT

Mar 31, 1981

US-PAT-NO: 4259522

DOCUMENT-IDENTIFIER: US 4259522 A

TITLE: Process for the production of isophtahalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. De
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☐ 50. Document ID: US 4219508 A

L4: Entry 50 of 50

File: USPT

Aug 26, 1980

US-PAT-NO: 4219508

DOCUMENT-IDENTIFIER: US 4219508 A

TITLE: Process for the preparation of low molecular weight polyhydroxyl compounds

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. De
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